

XP-002274032

AN - 1997-294919 [27]

AP - JP19960201441 19960731

CPY - IDEK

DC - E14 H07

FS - CPI

IC - B01J21/16 ; C07B61/00 ; C07C67/02 ; C07C67/347 ; C07C69/84 ; C10L1/18 ;
C10M129/76 ; C10N30/04 ; C10N30/08 ; C10N40/25 ; C10N70/00

MC - E10-G02A1 H07-A N01-C01A N06-A

M3 - [01] B114 C108 M411 M730 M903 Q421

- [02] A313 A940 C108 C730 M411 M730 M903 Q421

- [03] A100 A200 A313 A940 B114 C108 M411 M730 M903 Q421

- [04] G011 G012 G013 G014 G015 G016 G017 G018 G019 G100 H4 H401 H441 H8
J0 J011 J2 J231 M1 M121 M136 M210 M211 M212 M213 M214 M215 M216 M220
M221 M222 M223 M224 M225 M226 M231 M232 M233 M240 M282 M283 M320 M414
M510 M520 M532 M540 M720 M903 M904 N241 N262 N341 N441 N514 Q416;
9727-B9301-P

PA - (IDEK) IDEMITSU KOSAN CO LTD

PN - JP9110800 A 19970428 DW199727 C07C69/84 008pp

PR - JP19950208684 19950816

XA - C1997-095278

XIC - B01J-021/16 ; C07B-061/00 ; C07C-067/02 ; C07C-067/347 ; C07C-069/84 ;
C10L-001/18 ; C10M-129/76 ; C10N-030/04 ; C10N-030/08 ; C10N-040/25 ;
C10N-070/00

AB - J09110800 Prepn. of alkyl-substd. hydroxy-aromatic carboxylic acid
aryl esters (Aryl esters) comprises alkylating a hydroxy-aromatic
carboxylic alkyl ester with olefin in the presence of an acidic
catalyst to form alkyl-substd. hydroxy-aromatic carboxylic acid alkyl
ester, and transesterifying the alkyl ester with a hydroxy-aromatic
cpd..

- The hydroxy-aromatic carboxylic acid alkyl ester is alkyl salicylate.
Olefin has 4-40 C. The hydroxy-aromatic cpd. is C4+ alkyl phenol. The
acidic catalyst is at least one from mineral acid, silica-alumina,
zeolite, ion-exchange resin, clay mineral and acid clay.
- In an example, methyl salicylate (136.8 g, 0.9 mol), 1-dodecene (50.4
g, 0.3 mol) and active clay (15 g) were stirred at 230 deg. C for 5
hr., cooled, filtered and vacuum distilled to give methyl dodecyl
salicylate (65.4 g, 68 mol % yield based on 1-dodecene). Methyl
dodecyl salicylate (64.0 g, 0.2 mol) and dodecylphenol (52.5 g, 0.2
mol) were stirred at 250 deg. C for 5 hr. and vacuum distilled to give
dodecylphenyl dodecyl salicylate (79.2 g, 72 mol % yield).
- USE - Aryl esters are used as lubricant oils for Diesel engine and
methanol engine and additives for fuel oils.
- ADVANTAGE - Aryl esters are economically prepd. by a simple process.
- (Dwg.0/3)

CN - 9727-B9301-P

IW - ALKYL SUBSTITUTE HYDROXY AROMATIC CARBOXYLIC ACID ARYL ESTER
PREPARATION ALKYLATED HYDROXY AROMATIC CARBOXYLIC ESTER OLEFIN
PRESENCE ACIDIC CATALYST TRANSESTERIFICATION HYDROXY AROMATIC COMPOUND
IKW - ALKYL SUBSTITUTE HYDROXY AROMATIC CARBOXYLIC ACID ARYL ESTER
PREPARATION ALKYLATED HYDROXY AROMATIC CARBOXYLIC ESTER OLEFIN
PRESENCE ACIDIC CATALYST TRANSESTERIFICATION HYDROXY AROMATIC COMPOUND

NC - 001

OPD - 1995-08-16

ORD - 1997-04-28

PAW - (IDEK) IDEMITSU KOSAN CO LTD

TI - Alkyl-substd. hydroxy-aromatic carboxylic acid aryl ester prepn. - by
alkylating hydroxy-aromatic carboxylic ester with olefin in the
presence of an acidic catalyst, and then transesterifying with hydroxy
aromatic cpd.